

**Notice of Allowability**

Application No.

09/682,065

Examiner

Diem K. Cao

Applicant(s)

MUGICA ET AL.

Art Unit

2194

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment after final filed 9/12/2005.
2. ☒ The allowed claim(s) is/are 32-40, now renumbered 1-9.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 20050912.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

MENG-AL T. AN  
PATENT EXAMINER  
ART UNIT 2194

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Jeffry Furr (Reg. No. 38,146) on September 26, 2005.

2. The application has been amended as follows:

Claim 32 (Amended) A computerized method of a software architecture that provides high versatility and performance, the method comprising the steps of:

having two dimensions, an Application Dimension and a Complex Organizational Referee Engine Dimension;

relating the Application Dimension to the different applications and relating the Complex Organizational Referee Engine Dimension to the Application Dimension;

having a plurality of terminal devices;

having a Complex Organizational Referee Engine (CORE) which is a compound of software components that can accept different kinds of software extensions dynamically in a hot plug fashion, which manages task processing and task scheduling, manages information exchange between the two dimensions of the software architecture, manages the extension hot-plugging mechanism, and manages the exchange of information with other instances of itself within the Complex Organizational Referee Engine Dimension related and with a plurality of

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other Complex Organizational Referee Engines, thus wherein the CORE enabling communication between the different applications, providing both a the mechanism and the rules thereto;

having the Complex Organizational Referee Engine within the Complex Organizational Referee Engine dimension share information and integrate the ~~system~~ software architecture; and

having applications based on abstractions that are composed of drivers, abstraction layers and a unique Complex Organizational Referee Engine ;

~~having said Complex Organizational Referee Engine consists of a complex compound of software components that dynamically accepts software extensions and exchanges information with other Complex Organizational Referee Engines where~~ wherein said abstraction layers consists of a software layer that ~~the~~ hides implementation detail and data structures of a specific software, and said software ~~module~~ extensions are comprised of an abstraction layer and a driver.

Claim 33 (Amended) The method of claim 32 in which said ~~core~~ Complex Organizational Referee Engine Dimension consists of a plurality of Complex Organizational Referee Engines connected by a bidirectional communication means.

Claim 34 (Amended) The method of claim 32 in which said CORE consists of three parts;

i) a Complex Organizational Referee Engine kernel, which manages the task processing and scheduling, manages the information exchange between the Complex Organizational

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Referee Engine Dimension, and manages ~~the dynamic extension~~ different kinds of software extensions dynamically in a hot plug fashion;

ii) an InterExtensionCommunication and logic manager which manages the Complex Organizational Referee Engine's communication and tasks with a plurality of extensions; and

iii) an InterComplex Organizational Referee Engine Communication manager which manages the Complex Organizational Referee Engine's communication with a plurality of other Complex Organizational Referee Engines.

Claim 35 (Amended) The method of claim 32 in which the abstraction layer consists of two part;

i) a Complex Organizational Referee Engine Abstraction interface, which interfaces the software an extension with a the Complex Organizational Referee Engine; and

ii) an Extension Knowledge Layer , which contains logic and knowledge about the operations of the software extensions.

Claim 36 (Amended) The method of claim 32 in which includes the step of having an extension driver layer that consists of two parts:

i) an Abstraction-Driver interface, which interfaces the Abstraction layer with a the terminal device; and

ii) a Driver logic used to control the terminal device.

3. Replace claims 39 and 40 with the following

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Claim 39: The method of claim 32 further comprising replacing the terminal device with a new terminal device consisting of adding the step of changing the driver for the software extension.

Claim 40: The method of claim 32 further comprising adding a new terminal device consisting of adding the steps of:

- a) constructing a new software extension for the terminal device;
- b) interfacing the new software extension into the Complex Organizational Referee Engine;
- c) asking the Complex Organizational Referee Engine for the required data and information to handle the new software extension.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diem K. Cao whose telephone number is (571) 272-3760. The examiner can normally be reached on Monday - Friday, 5:30AM - 2:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Any response to this action should be mailed to:**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist at 571-272-2100.

Diem Cao



**MENG-AL T. AN**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 1**